

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1 1-25. (Canceled)

1 26-38. (Canceled)

1 39. (New) A high density storage system, comprising:
2 a housing configured for installation in a multiple housing, system-level RAID
3 controller package;

4 a plurality of storage devices , each of the plurality of storage devices arranged
5 edge-to-edge within the housing to provide a high density storage system form factor
6 having a width substantially corresponding to a dimension of one of the plurality of
7 storage devices; and

8 a sub-system controller, disposed within the housing, for providing a sub-system
9 level RAID configuration to only the plurality of storage devices disposed within the
10 housing.

1 40. (New) The high density storage system of claim 39, wherein the plurality
2 of storage devices are arranged horizontally end-to-end.

1 41. (New) The high density storage system of claim 39, wherein the plurality
2 of storage devices are arranged vertically side-by-side.

1 42. (New) The high density storage system of claim 39, wherein the width of
2 the high density storage system substantially corresponds to a height of one of the
3 plurality of storage devices.

1 43. (New) The high density storage system of claim 39, wherein the width of
2 the high density storage system substantially corresponds to a width of one of the
3 plurality of storage devices.

1 44. (New) The high density storage system of claim 39, wherein the sub-
2 system controller is further configured to provide a hot spare storage device held in the
3 housing for use when one of the plurality of storage devices within the housing fails.

1 45. (New) The high density storage system of claim 39, wherein the housing
2 is configured to have a minimum width.

1 46. (New) The high density storage system of claim 39, wherein the housing
2 further comprises fault indicators for providing notification of a fault condition for a
3 storage device within the housing.

1 47. (New) A storage system, comprising:

2 a system-level RAID controller package configured for implementing a desired
3 system level RAID configuration;

4 a plurality of high density storage systems, disposed within the system-level
5 RAID controller package, each of the plurality of high density storage systems
6 comprising

7 a housing;

8 a plurality of storage devices , each of the plurality of storage devices
9 arranged edge-to-edge within the housing to provide a high density storage system form
10 factor having a width substantially corresponding to a dimension of one of the plurality of
11 storage devices; and

12 a sub-system controller, disposed within the housing, for providing a sub-
13 system level RAID configuration to only the plurality of storage devices disposed within
14 the housing; and

15 a package aggregator, coupled to the plurality of high density storage systems, for
16 providing connections to each of the plurality of high density storage systems for power,
17 control and signaling.

1 48. (New) The storage system of claim 47, wherein the plurality of storage
2 devices are arranged horizontally end-to-end.

1 49. (New) The storage system of claim 47, wherein the plurality of storage
2 devices are arranged vertically side-by-side.

1 50. (New) The storage system of claim 47, wherein the width of the high
2 density storage system substantially corresponds to a height of one of the plurality of
3 storage devices.

1 51. (New) The storage system of claim 47, wherein the width of the high
2 density storage system substantially corresponds to a width of one of the plurality of
3 storage devices.

1 52. (New) The storage system of claim 47, wherein the system-level RAID
2 controller package is configured to provide a system-level RAID logical configuration
3 across the plurality of plurality of high density storage systems.

1 53. (New) A method for providing a high density storage package,
2 comprising:
3 providing a housing configured for installation in a multiple housing, system-level
4 RAID controller package;
5 providing a plurality of storage devices , each of the plurality of storage devices
6 arranged edge-to-edge within the housing to provide a high density storage system form
7 factor having a width substantially corresponding to a dimension of one of the plurality of
8 storage devices; and
9 providing a sub-system controller, disposed within the housing, to present a sub-
10 system level RAID configuration to only the plurality of storage devices disposed within
11 the housing.